Nitsuki
Japan Communication Equipment Co., Ltd.

MODEL 3671B:
OLED VIDEO SIGNAL GENERATOR

[LCD Multi-Channel Signal Generator]

Outline

- It conforms to the Compact PCI.
- Using SH-4 as CPU, Space-saving is achieved.
- 1 Slot-width Board.
- It uses Linux as Operating System, and it installs IPL, can boot Linux.
- It has these function; Compact Flash Socket for Application, 100Mbps Ethernet Port, RS-232C Serial Port. So, it can use as a Controller for Networks System. Using Bus Bridge, It can easily construct other system.
- On this system, Signal Generation Unit and Power Unit are fit for 1 Slot, and possible equipped with five or less.

Space-saving, Low Power Consumption
Compact PCI 3U Shape, 1 Slot width. Space-saving is achieved.
Using processor for build-in, Low power consumption is achieved.

Wide Main Memory
Using 64MB SDRAM. It operates external Bus 80MHz/32bit.

CF (Compact Flash) Socket
Can insert CF Memory Card, it's useful for mounting OS or Application.

Interface for Peripherals
The port for connecting peripherals is equipped with RS-232C Serial Port.

LAN Network Correspondence
RTL8139CL+ is installed (Corresponds to 10BASE-T/100BASE-TX)
It is possible to corresponding Network System.

Installs 'IPL' for Linux
It installs IPL for booting Linux Operating System.

CPU Board / Hardware Specification

CPU	Processor	SH7751R
	1st. Cache	Command: 16Kbyte/Data: 32Kbyte
Main Memory	Capacity	64MB (SDRAM)
	Bus Clock	80MHz
Enhancing Bus	Corresponding Bus standard	Compact PCI Specification PICMG2.0 R3.0
	Bus range	32bit
	Bus Clock	33MHz
	Bus Master	Main Memory correspond to DMA, All Slots correspond to Bus Master.
Interface	CF Interface	CF Socket x 1
	Serial Port	1 Port (D-Sub 9Pin)
	Ethernet	2 Port (100Base-TX/10Base-T, RJ-45 Mojuler Socket) Controller: RTL8139CL+ (Realtek) Standard: IEEE802.3 10Base-T/100Base-TX IEEE802.3u Autonegotiation IEEE802.3x 100Base-TX Flow control
FirmWare		IPL (Linux Loader)
Flash Memory for Application		8MB
Switch		Reset Switch x 1, DSW for Settings x 4
LED		Power supply State x 1, General purpose x 1
RTC		Accuracy: Within 1 minute in one month
Litium Battery		General purpose: About 5 years

Main Body Standard

Main Body Ratings	100 ~ 240V
Power Supply Frequency	50Hz/60Hz
MAX Electric power	About 180W
Externals size	322.96(W) x 134(H) x 258(D) mm (An umbo doesn't contain it)
Weight	6kg (When Full units loaded)
Operating Temperature	5 ~ 40 Centigrade (Be careful for cooling, using over 40 Centigrade)
Humidity	20% ~ 80%
Accessory	Manual x 1, AC Cable x 1, Fuse x 1, CD-ROM x 1

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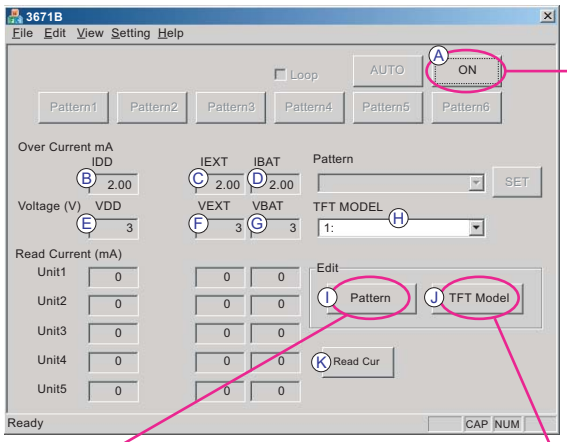
PC Initial Window [PC画面]

● When 3671B.EXE was executed, this window opens.

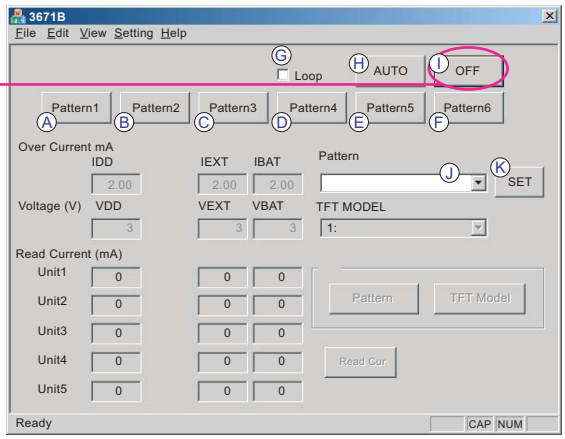


Over Current Settings: Ⓑ IDD, Ⓒ IEXT, Ⓓ IBAT
Voltage Settings: Ⓔ VDD, Ⓕ VEXT, Ⓖ VBAT

Ⓐ 'Power On/OFF' Button.
Ⓗ Select one from TFT Model list.
Ⓚ Read an electrical current of unit.
Ⓘ Pattern Edit Button.
Ⓙ Model Edit Button.

Power On Window [Power On時の画面]

● Change Patterns with manual mode.

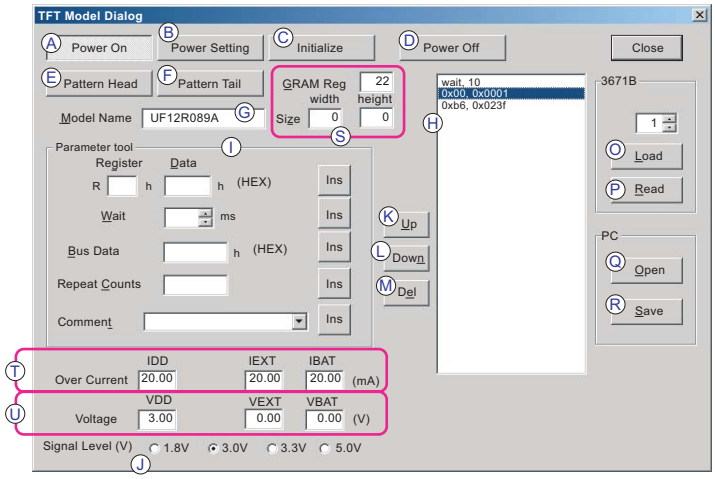


Keys: ⒶⒷⒸⒹⒺⒻ Registered User's Pattern 1 to 6

Loop: Check on Ⓖ'Loop', and press Ⓗ'AUTO' button, it repeats endlessly from Ⓐ to Ⓕ.
(Check off Ⓖ'Loop', and press Ⓗ'AUTO' button, it repeats only One Time.)

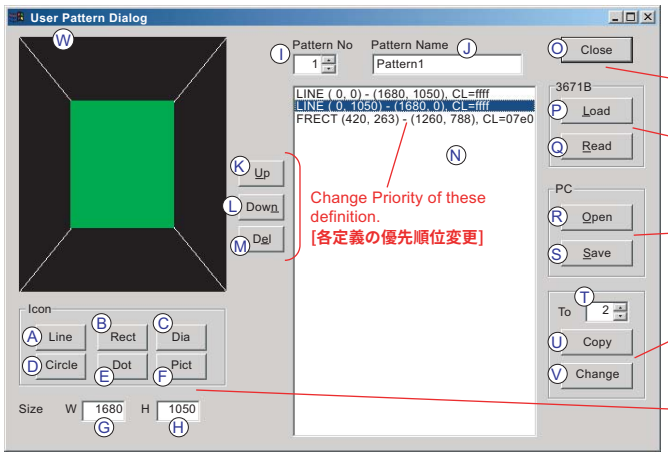
Ⓘ 'Power OFF/ON' Button.
Ⓙ Select one from 30 Pattern list, and load with Ⓚ'SET' button on.

Display Model Setting Window [モニタ型番等設定]



Ⓐ The key of making 'Power On' sequences.
Ⓑ The key of making 'Power Setting' sequences.
Ⓒ The key of making 'Initialize' sequences.
Ⓓ The key of making 'Power Off' sequences.
Ⓔ The key of registering addresses, which set 'pattern heads'.
Ⓕ The key of registering addresses, which set 'pattern tails'.
Ⓖ Input field of registering 'Display Model Name'.
Ⓗ Parameter view field.
Ⓘ Keys of parameters.
Ⓙ Select from radio buttons, which sets 'Output Signal Level'.
Ⓚ Raises the priority level of Selected command in Ⓗ field.
Ⓛ Lowers the priority level of Selected command in Ⓗ field.
Ⓜ Deletes the Selected command in Ⓗ field.
Ⓝ Selects a number, which stores Signal Generators' address.
Ⓞ Loads a data to selected Signal Generators.
Ⓟ Reads a data from selected Signal Generators.
Ⓠ Open setting files from PC.
Ⓡ Save settings to PC as files.
Ⓢ Area Decide TFT panel size by dot (width/height).
GRAM Register: If TFT panel requires, Decide the size of memory register by base 16 (0~F).
Ⓣ Area Settings of an Over current.
Ⓤ Area Settings of supplying voltage.

Pattern Setting Window [パターン設定画面]



● User's pattern can be registered.
[ユーザーが任意のパターンを作成・登録できます]

Ⓘ Select 1 pattern from 30. Ⓙ Decide pattern name
Ⓞ Close this dialog

Ⓡ [Open] the Settings from PC,
Ⓢ [Save] the Setting to PC.

Ⓡ [Open] the Settings from PC,
Ⓢ [Save] the Setting to PC.

Ⓤ Copy from Pattern Number Ⓣ
Ⓥ Change Pattern of Number Ⓣ

Ⓝ Command View Area
Ⓦ Result Area

[Icon]
Ⓐ Line Tool (線) Ⓑ Rectangle Tool (■) Ⓒ Diamond Tool (◆)
Ⓓ Circle Tool (円) Ⓔ Dot Tool (点) Ⓕ Natural Picture Tool (自然画)

Decide the Display [Size] Ⓖ Width Ⓗ Height

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日本通信機株式会社

MODEL 3671 B: OLED 映像信号発生器
OLED VIDEO SIGNAL GENERATOR

概 要

- Compact PCI に準拠。
- CPU はSH-4を搭載し、Space-saving を実現。
- 1 Slot幅のBoard となっています。
- OSとしてLinuxを動作させることができ、Linux起動を可能にするIPLを搭載しています。
- Application用CF Socket、100Mbps Ethernet、Serial Port通信機能を持ち、Networkを中心としたSystemのControllerとしても使用可能です。また、BUS Bridge を使用して他のSystemを容易に構築する事が可能です。
- 本Systemにおいて信号発生部及び電源生成は1 Slotに収納しており最大5 Slotまで搭載可能です。

Space-saving 、低消費電力
Compact PCI 3U形状1 Slot幅のSpace-saving設計。
組み込み用Processorを使用、低消費電力を実現しています。

余裕のMain Memory
64MBのSDRAMを使用、外部 BUS 80MHz/32bitで動作します。

CF (Compact Flash) Socketを装備
CF Memory Cardを挿入することができ、OSやApplicationの実装に役立ちます。

周辺機器 Interface
周辺機器との接続用にRS-232C Serial Portを搭載。

LAN Network対応
10BASE-T/100BASE-TXに対応したRTL8139CL+を搭載。
Networkを中心としたSystemにも対応可能です。

Linux対応IPL搭載
Linuxの起動が可能なIPLを搭載しています。

CPU Board / Hardware 仕様

CPU	Processor	SH7751R
	1次Cache	命令: 16Kbyte/Data: 32Kbyte
メモリ	容量	64MB (SDRAM)
	BUS Clock	80MHz
拡張BUS	対応BUS 規格	Compact PCI Specification PICMG2.0 R3.0
	BUS 幅	32bit
	BUS Clock	33MHz
	BUS Master	Main Memory DMA対応、全Slot BUS Master対応
Interface	CF Interface	CF Socket ×1
	Serial Port	1 Port (D-Sub 9Pin)
	Ethernet	2 Port (100Base-TX /10Base-T、RJ-45 Mojuler Socket) Controller：RTL8139CL+ (Realtek社製) 規格：IEEE 802.3 10Base-T/100Base=TX IEEE802.3u Autonegotiation IEEE802.3x 100Base-TX Flow control
FirmWare		IPL (Linux Loader)
Application用FLASH Memory		8MB
Switch		リセットスイッチ×1、設定用DSW×4
LED		電源状態×1、汎用×1
RTC		精度：月差1分以内
Litium 電池		寿命：約5年

本体規格

本体規格	100～240V
電源周波数	50Hz/60Hz
最大電力	約180W
外形寸法	322.96(W)×134(H)×258(D) (突起部は含まず)
質量	約6kg (Full 実装の場合)
動作温度	5～40℃ (40℃以上では冷却を十分考慮して設置して下さい)
湿度	20%～80%
付属品	取扱説明書×1、AC Cable ×1、Fuse ×1、CD-ROM×1

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